



The University of Jordan

Accreditation & Quality Assurance Center

**Toxic and Hallucinogenic Plants
1201531**

COURSE Syllabus

1	Course title	Toxic and Hallucinogenic Plants
2	Course number	1201531
3	Credit hours (theory, practical)	2 credit hours theory
	Contact hours (theory, practical)	2
4	Prerequisites/corequisites	1203364
5	Program title	PharmD and Pharmacy
6	Program code	
7	Awarding institution	The University of Jordan
8	Faculty	Pharmacy
9	Department	Pharmaceutical Sciences
10	Level of course	Undergraduate
11	Year of study and semester (s)	Fourth / fifth year (elective course)
12	Final Qualification	Pharmacy BSc PharmD BSc
13	Other department (s) involved in teaching the course	None
14	Language of Instruction	English
15	Date of production/revision	4 th September 2016

16. Course Coordinator:

Office numbers, office hours, phone numbers, and email addresses should be listed.

Dr. Khaled Tawaha

Office:233

Phone numbers: 23303

Mobile : 0799592258

Office hours Sun & Tue 10-11; Mon & Wed 11-12, 2-3

e-mail: K.Tawaha@ju.edu.jo

17. Other instructors:

Dr Mayadah Shehadeh

Office no.: 207 extension building Ext: 23313

Office hours: Check Office Posting

e-mail: m.shehadeh@ju.edu.jo

Website: <http://eacademic.ju.edu.jo/m.shehadeh/default.aspx>

18. Course Description:

This course exposes the students to basic knowledge about toxic, hallucinogenic and narcotic plants. The course deals with narcotic and hallucinogenic plant material, their effect on the brain and biological effects on health in general. In addition, the course discusses toxic plants mainly those endemic to Jordan. Focuses mainly on the toxic part(s), toxic constituents, symptoms of poisoning, treatment and precautions.

19. Course aims and outcomes:

A- Aims:

This course aims at acquainting students with basic knowledge of toxic, hallucinogenic and narcotic plants. The course involves two parts; the first part deals with narcotic and hallucinogenic plant materials, their effect on the brain and biological effects on health in general. The second part discusses toxic plants mainly those which are endemic to Jordan. Focus mainly on the toxic part(s), toxic constituents, symptoms of poisoning, treatment and precautions.

B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to

A) Knowledge and Understanding: Student is expected to:

- Understand the science of toxic and hallucinogenic plants
- Acquaint the knowledge of the constituents of plants and their effect on health and brain.

B) Intellectual Analytical and Cognitive Skills: Student is expected to:

- Generally define and investigate in the field the and disciplines related to study toxic and hallucinogenic plants
- Define, identify and evaluate of toxic and hallucinogenic plants

C) Subject-Specific Skills: Student is expected to:

- Acquaint practical knowledge of methods of identification, chemical and physical evaluation of toxic and hallucinogenic plants
- Evaluate the hazardous effects of toxic and hallucinogenic plants on human health and CNS.

D) Transferable Key Skills: Students is expected to:

- Work in a team as work group and discuss results with other colleagues.
- Know how to conduct a literature survey, access specific information about toxic and hallucinogenic plants as well as how to collect data of others research to prepare group common reports.

20. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Introduction to hallucinogenic and narcotic plants	1	Dr Mayadah Shehadeh			1
CNS Neurotransmitters and their role with hallucinogenic and narcotic materials	2	Dr Mayadah Shehadeh			1

Plants containing hallucinogenic and dissociative substances	6	Dr Mayadah Shehadeh			1 & 2
Plants containing narcotics	3	Dr Mayadah Shehadeh			1 & 2
General preventive and treatment strategies	2	Dr Mayadah Shehadeh			1&3& 4
Legislations of natural narcotics and hallucinogens in Jordan	1	Dr Mayadah Shehadeh			4
Part 2					
Plants containing toxic di-and triterpenoids	1	Prof Khalid Tawaha			2&3
Poison Hemlock	1	Prof Khalid Tawaha			2&3
Plants containing Solanine alkaloids	1	Prof Khalid Tawaha			2&3
Plants containing Pyrrolizidine alkaloid	1	Prof Khalid Tawaha			2&3&5
Introduction to poisonous plants	2	Prof Khalid Tawaha			2&3
Removal of poisoning material	2	Prof Khalid Tawaha			2&3
General antidotes	2	Prof Khalid Tawaha			2&3
Plants containing Oxalates	1	Prof Khalid Tawaha			2&3

Plants containing Cardiac glycosides	1	Prof Khalid Tawaha			2&3
Plants containing Tropane alkaloids	1	Prof Khalid Tawaha			2&3&5
Ricin toxicity	1	Prof Khalid Tawaha			2&3&5

21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

- 1) Lectures
- 2) Presentations
- 3) Assignments
- 4) Demonstration of plant material

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

1.Exams

Midterm exam : 6th week of the semester 40%
 Final exam: 15th week of the semester 50%

- 5) 2. Quiz + Assignment 10 %

23. Course Policies:

A- Attendance policies:

- First warning- with 4 absences
- Second warning- with 5 absences
- Failing in the module- with 6 absences

B- Absences from exams and handing in assignments on time:

- Midterm exam and Quiz: a justified excuse should be submitted and accepted by the instructor in order to be eligible for a make up (Hospitalization or passing away of one of the first degree relatives).
- Final Exam: a justified excuse should be submitted and accepted by the Dean in order to be eligible for and "incomplete" exam.

C- Health and safety procedures:

D- Honesty policy regarding cheating, plagiarism, misbehavior:

The participation, the commitment of cheating, plagiarism or misbehaviour will lead to applying all following penalties together as described in the regulations after investigations of the responsible committee:

- 1) Failing the subject he/she cheated at
- 2) Failing the other subjects taken in the same course
- 3) Not allowed to register for the next semester

The summer semester is not considered as a semester

E- Grading policy:

- Midterm Exam (40%)
- Quiz + Assignment (10%)
- Final Exam (50%)

F- Available university services that support achievement in the course:

University Library with necessary reference books, E-Library (Books, scientific journals)

24. Required equipment:

Data show

25. References:

A- Required book (s), assigned reading and audio-visuals:

Main Reference/s:

- 1) NIDA website: <http://www.drugabuse.gov/>
- 2) Trease and Evans ' Pharmacognosy". 16 th Edition; 2009.
- 3) Pharmacognosy, Phytochemistry, Medicinal Plants, By Jean Bruneton. 1999
- 4) قوانين و تشريعات المخدرات و المؤثرات العقلية (4)
قسم المخدرات و المؤثرات العقلية: تصنيف فرعي (المؤسسة العامة للغذاء و الدواء
<http://www.jfda.jo>
- 5) (القلويدات) كيمياء النواتج الطبيعية
2015 - عمان- دار مجدلاوي للنشر والتوزيع) ، سليمان العليمات

B- Recommended books, materials, and media:

26. Additional information:

Name of Course Coordinator: -----Signature: ----- Date: -----

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----

Copy to:
Head of Department
Assistant Dean for Quality Assurance
Course File